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## INTRODUCTION

The mountains of eastern Cuba mountains are the main center of floristic and faunistic diversity and have the highest endemism on the island. Considering only the vertebrates, these mountains harbor 71% of Cuba's species and 30% of its endemic species (Fong, 1994). Specifically, the Sagua-Baracoa Mountains contain, together with Sierra Maestra, the most endemic amphibians and reptiles and the greatest number of species. Fifty-three percent of Cuban amphibians and 45.6% of Cuban reptiles occur in Sagua-Baracoa. Although these mountains comprise less than a fourth of the Cuban territory, they have half of the Cuban herpetofauna.

The high endemism (93.1% in amphibians and 74.2% in reptiles), along with 40% of the species being typical of Sagua-Baracoa, contribute to the national and global importance of this area. For this reason, we prepared the following checklist. It includes all species of amphibians and reptiles of Sagua-Baracoa described through June 2000. The list also summarizes the endemism and distribution of the S-B herpetofauna. Despite the currency of this report, it is not conclusive because new species continue to be described. We agree with the statement of Schwartz and Henderson (1991): "we hope that new species are discovered and described for many years to come".

The compilation of this checklist is based on the author's field work and observations throughout the eastern Cuba, as well as data from the Cuban herpetological collections of the Instituto de Ecología y Sistemática, Museo Nacional de Historia Natural, Museo de Historia Natural de Holguín, and Centro Oriental de Ecosistemas y Biodiversidad (BIOECO) of Santiago de Cuba. We also used the herpetological database created for a previous work (Fong, 1994), in which all literature about Eastern Cuban vertebrates through 1993 was reviewed. In addition to that literature we include new species descriptions from 1994 onward.

We define the Sagua-Baracoa Mountains (following Nuñez et al., 1989) as consisting of the Sierra de Nipe (SN), Alturas del Segundo Frente (SF), Sierra del Cristal (SC), Sierra de Sagua de Tánamo (ST), Gran Meseta de Guantánamo (MG), Cuchillas de Toa (CT), Alturas de Moa (AM), Cuchillas y Mesas de Baracoa-Imías (CB), Gran Meseta Cársica de Baracoa (MB), Mesas Costeras Aterrazadas de Guantánamo-Cajobabo (TG) and Llanura Costera Yaguaneque-Baracoa (LC). For a detailed map of the Sagua-Baracoa region see Nuñez et al. (1989).

Abbreviations are as follow: EN = Endemism, E = Cuban endemic, R = Regional Cuban endemic (known only from Sagua-Baracoa), L = Local Cuban endemic (known only from isolated localities in Sagua-Baracoa), - = No endemic species, I = Introduced species.



## Acknowledgements

Most results of this report derive from the "Diversidad Biológica de los Macizos Montañosos Sierra Maestra y Nipe-Sagua-Baracoa" project, which supported portions of our field work. Luis V. Moreno and Orlando H. Garrido provided very valuable assistance to our studies in the last years. S. Blair Hedges sent us some important literature on the Cuban herpetofauna. Iliana Boza and Dylan Robison help us with the translation to English.

## CHECKLIST

|                                       | EN | DISTRIBUTION                                     | DATA SOURCES   |
|---------------------------------------|----|--|--|
| <b>AMPHIBIA</b>                       |    |  |  |
| <b>ANURA</b>                          |    |  |  |
| <b>Bufonidae</b>                      |    |  |  |
| <i>Bufo longinasus</i>                | E  | MG   | Valdés and Ruiz (1980)<br>Garrido and Jaume (1984)   |
| <i>Bufo peltoccephalus</i>            | E  | SN, SC, ST, MG,<br>CT, AM, MB, TG                | Estrada et al.(1987)<br>Abreu et al. (1989)<br>Authors' unpub. data  |
| <i>Bufo taladai</i>                   | E  | SN, MG, CT, AM,<br>CB, MB, TG                    | Garrido and Jaume (1984)<br>Estrada et al.(1987)<br>Authors' unpub. data<br>Collection's data                    |
| <b>Hylidae</b>                        |    |  |  |
| <i>Osteopilus septentrionalis</i>     | -  | SN, SF, SC, ST,<br>MG, CT, AM, CB,<br>MB, TG, LC | Estrada et al.(1987)<br>Abreu et al. (1989)<br>Authors' unpub. data<br>Collection's data                         |
| <b>Leptodactylidae</b>                |    |  |  |
| <i>Eleutherodactylus acmonis</i>      | E  | SC, ST, MG, CT,<br>AM, CB, MB                    | Garrido and Jaume (1984)<br>Estrada et al.(1987)<br>Abreu et al. (1989)<br>Collection's data                     |
| <i>Eleutherodactylus atkinsi</i>      | E  | SN, SC, MG, CT,<br>AM, CB, MB, TG,<br>LC         | Estrada et al.(1987)<br>Abreu et al. (1989) Hedges et al.<br>(1992)<br>Authors' unpub. data<br>Collection's data |
| <i>Eleutherodactylus auriculatus</i>  | E  | ST, MG, CT, AM,<br>CB                            | Estrada et al.(1987)<br>Estrada and Hedges (1997)<br>Authors' unpub. data<br>Collection's data                   |
| <i>Eleutherodactylus bartonsmithi</i> | L  | ST, MB   | Garrido and Jaume (1984)<br>Hedges et al. (1992)<br>Collection's data  |
| <i>Eleutherodactylus bresslerae</i>   | L  | MB   | Garrido and Jaume (1984)<br>Silva Taboada (1988)<br>Abreu et al. (1989)<br>Collection's data                     |



|                                       |   |  |  |
|---------------------------------------|---|--|--|
| <i>Eleutherodactylus cuneatus</i>     | E | SN, SC, ST, MG,<br>CT, AM, CB, MB,<br>LC | Barbour and Ramsden (1919)<br>Garrido and Jaume (1984)<br>Estrada et al.(1987)<br>Hedges et al. (1992)<br>Estrada and Hedges (1998)<br>Authors' unpub. data<br>Collection's data |
| <i>Eleutherodactylus dimidiatus</i>   | E | SN, MG, CT, AM,<br>MB                    | Garrido and Jaume (1984)<br>Estrada et al.(1987)<br>Hedges et al. (1992)<br>Authors' unpub. data   |
| <i>Eleutherodactylus guantanamera</i> | E | MG, CT, AM, CB                           | Hedges et al. (1992)<br>Fong (2000)<br>Authors' unpub. data<br>Collection's data   |
| <i>Eleutherodactylus gundlachi</i>    | E | MG, CB                                   | Garrido and Jaume (1984)   |
| <i>Eleutherodactylus iberia</i>       | L | CB                                       | Estrada and Hedges (1996b)<br>Authors' unpub. data   |
| <i>Eleutherodactylus intermedius</i>  | E | CB                                       | Garrido and Jaume (1984)   |
| <i>Eleutherodactylus ionthus</i>      | E | SN, SF, SC, ST,<br>MG, CT, AM, CB,<br>MB | Garrido and Jaume (1984)<br>Estrada et al.(1987)<br>Authors' unpub. data<br>Collection's data  |
| <i>Eleutherodactylus leberi</i>       | E | MG                                       | Garrido and Jaume (1984)<br>Hedges et al. (1992)   |
| <i>Eleutherodactylus limbatus</i>     | E | SN, SC, ST, MG,<br>CT, AM, MB            | Estrada et al.(1987)<br>Silva Taboada (1988)<br>Hedges et al. (1992)<br>Authors' unpub. data<br>Collection's data  |
| <i>Eleutherodactylus mariposa</i>     | L | MG                                       | Hedges et al. (1992)   |
| <i>Eleutherodactylus orientalis</i>   | L | MG, CB                                   | Garrido and Jaume (1984)<br>Estrada and Hedges (1996b)<br>Collection's data  |
| <i>Eleutherodactylus pezopetrus</i>   | E | SN, MG                                   | Collection's data  |
| <i>Eleutherodactylus planirostris</i> | - | SN, SC, MG, CT,<br>AM, CB, MB, LG        | Estrada et al.(1987)<br>Abreu et al. (1989)<br>Authors' unpub. data<br>Collection's data   |
| <i>Eleutherodactylus principalis</i>  | R | ST, CT, AM, CB                           | Estrada and Hedges (1997)  |
| <i>Eleutherodactylus ricordi</i>      | E | SN, SC, MG, CT,<br>AM, CB, MB            | Hedges et al. (1992)<br>Authors' unpub. data<br>Collection's data  |



|                                    |   |                        |  |
|------------------------------------|---|------------------------|--|
| <i>Eleutherodactylus riparius</i>  | E | SN                     | Authors' unpub. data   |
| <i>Eleutherodactylus ronaldi</i>   | E | ST, MG, CT, AM, CB     | Garrido and Jaume (1984),<br>Estrada et al.(1987)<br>Hedges et al. (1992)<br>Authors' unpub. data<br>Collection's data                         |
| <i>Eleutherodactylus tetajulia</i> | L | CB                     | Estrada and Hedges (1996a)<br>Authors' unpub. data   |
| <i>Eleutherodactylus toa</i>       | R | SF, ST, MG, CT, AM, MB | Estrada and Hedges (1991)<br>Fong (2000)<br>Collection's data  |
| <i>Eleutherodactylus varleyi</i>   | E | SN, SC, MG, AM, CB     | Estrada et al.(1987)<br>Collection's data<br>Authors' unpub. data  |
| <i>Rana catesbeiana</i>            | I | SF, SN, SC             | Authors' unpub. data   |
| <b>REPTILIA</b>                    |   |                        |  |
| <b>SQUAMATA</b>                    |   |                        |  |
| <b>Amphisbaenidae</b>              |   |                        |  |
| <i>Amphisbaena cubana</i>          | E | SN, SC, CT             | Estrada et al.(1987)<br>Thomas and Hedges (1998a)<br>Navarro et al. (in press)<br>Authors' unpub. data   |
| <b>Anguidae</b>                    |   |                        |  |
| <i>Diploglossus nigropunctatus</i> | R | SC, MG, CT, CB, MB     | Garrido and Jaume (1984)<br>Estrada et al.(1987) Abreu et al.<br>(1989) Thomas and Hedges (1998b)<br>Authors' unpub. data<br>Collection's data |
| <b>Gekkonidae</b>                  |   |                        |  |
| <i>Gonatodes albogularis</i>       |   | SC, MB, LC             | Authors' unpub. data<br>Collection's data  |
| <i>Hemidactylus haitianus</i>      | - | SN, SC, MB, LC         | Authors' unpub. data<br>Collection's data  |
| <i>Sphaerodactylus armasi</i>      | L | MB, TG                 | Schwartz and Garrido (1974)<br>Garrido and Jaume (1984)<br>Schwartz and Garrido (1985)<br>Collection's data                                    |
| <i>Sphaerodactylus bromeliarum</i> | L | CB                     | Garrido and Jaume (1984)<br>Schwartz and Garrido (1985)  |

|                                       |   |                                    |   |
|---------------------------------------|---|------------------------------------|---|
| <i>Sphaerodactylus celicara</i>       | R | CT, AM, CB, MB, LC                 | Garrido and Jaume (1984)<br>Garrido and Schwartz (1982)<br>Estrada et al.(1987) Authors' unpub. data<br>Collection's data   |
| <i>Sphaerodactylus elegans</i>        | - | ST, CB                             | Schwartz and Garrido (1985)<br>Authors' unpub. data<br>Collection's data  |
| <i>Sphaerodactylus nigropunctatus</i> | - | MG, LC                             | Garrido and Jaume (1984)<br>Schwartz and Garrido (1985)<br>Authors' unpub. data<br>Collection's data                        |
| <i>Sphaerodactylus notatus</i>        | - | SC, MG,CB, MB, LC                  | Schwartz and Garrido (1985)<br>Authors' unpub. data<br>Collection's data  |
| <i>Sphaerodactylus ramsdeni</i>       | E | MG                                 | Garrido and Jaume (1984)<br>Schwartz and Garrido (1985)<br>Thomas et al. (1992)<br>Collection's data                        |
| <i>Sphaerodactylus ruibali</i>        | L | TG                                 | Garrido and Jaume (1984)<br>Schwartz and Garrido (1985)<br>Authors' unpub. data<br>Collection's data                        |
| <i>Tarentola americana</i>            | - | SN, SC, MB, TG, LC                 | Barbour and Ramsden (1919)<br>Abreu et al. (1989)<br>Navarro et al. (in press)<br>Authors' unpub. data<br>Collection's data |
| <b>Iguanidae/Iguaninae</b>            |   |                                    |   |
| <i>Cyclura nubila</i>                 | - | CB, TG, MB                         | Barbour and Ramsden (1919)<br>Authors' unpub. data  |
| <b>Iguanidae/Polychrotidae</b>        |   |                                    |   |
| <i>Anolis alayoni</i>                 | R | SN, SC, MG, CT, AM, CB, MB, LC     | Estrada and Hedges (1995)<br>Navarro et al. (in press)<br>Authors' unpub. data  |
| <i>Anolis alfaroi</i>                 | L | MG                                 | Garrido and Hedges (1992)<br>Collection's data  |
| <i>Anolis allogus</i>                 | E | SN, SC, ST, MG, CT, AM, CB, MB, LC | Barbour and Ramsden (1919)<br>Estrada et al.(1987)<br>Abreu et al. (1989)<br>Authors' unpub. data<br>Collection's data      |



|                            |   |  |   |
|----------------------------|---|--|---|
| <i>Anolis alutaceus</i>    | E | SN, SC, ST, MG,<br>CT, AM, CB                | Garrido (1980) Garrido and Jaume<br>(1984) Estrada et al.(1987)<br>Abreu et al. (1989) Garrido and<br>Estrada (1989) Navarro et al. (in<br>press) Authors' unpub. data<br>Collection's data |
| <i>Anolis anfiloquioi</i>  | R | SN, SC, CB, MB,<br>TG                        | Garrido (1980) Garrido and Jaume<br>(1984) Navarro et al. (in press)<br>Authors' unpub. data<br>Collection's data   |
| <i>Anolis angusticeps</i>  | - | MG, AM, CB, MB,<br>LC                        | Garrido (1975c) Estrada et al.(1987)<br>Estrada and Hedges (1995)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis argenteolus</i>  | E | SN, SC, ST, MG,<br>CT, AM, CB, MB,<br>TG, LG | Estrada et al.(1987) Abreu et al.<br>(1989) Navarro et al. (in press)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis argillaceus</i>  | E | SC, ST, MG, CT,<br>AM, CB, MB                | Garrido (1975a)<br>Estrada et al.(1987)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis baracoae</i>     | R | CT, CB,MB                                    | Schwartz and Garrido (1972)<br>Garrido and Jaume (1984)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis centralis</i>    | E | MG, MB,TG                                    | Garrido (1975a)<br>Garrido and Jaume (1984)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis cupeyalensis</i> | E | SN, SC, ST, MG,<br>CT                        | Garrido (1975b) Garrido and Jaume<br>(1984) Estrada et al.(1987)<br>Schwartz and Henderson (1991)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis cyanopleurus</i> | R | SC, MG, CT,<br>CB,MB                         | Garrido (1975b) Garrido and Jaume<br>(1984) Estrada et al.(1987) Abreu<br>et al. (1989) Authors' unpub. data<br>Collection's data   |
| <i>Anolis fugitivus</i>    | L | AM, LC                                       | Garrido (1980)<br>Garrido and Jaume (1984)<br>Authors' unpub. data  |

|                            |   |  |   |
|----------------------------|---|--|---|
| <i>Anolis homolechis</i>   | E | SN, SC, ST, MG,<br>CT, AM, CB, LC                | Garrido (1975b) Estrada et al.<br>(1987) Abreu et al. (1989)<br>Authors' unpub. data<br>Collection's data               |
| <i>Anolis imias</i>        | L | MB, TG   | Garrido and Jaume (1984)<br>Fong (2000)<br>Collection's data  |
| <i>Anolis inexpectatus</i> | R | ST, CT, AM                                       | Garrido and Estrada (1989)<br>Authors' unpub. data<br>Collection's data   |
| <i>Anolis isolepis</i>     | E | SN, SC, ST, MG,<br>CT, AM, MB, LC                | Garrido and Jaume (1984)<br>Estrada et al.(1987) Navarro et al.<br>(in press) Authors' unpub. data<br>Collection's data |
| <i>Anolis jubar</i>        | E | MB, TG, LC                                       | Garrido (1973a) Garrido and Jaume<br>(1984) Silva Taboada (1988)<br>Authors' unpub. data<br>Collection's data           |
| <i>Anolis loysianus</i>    | E | SN, SC, ST, CT,<br>AM                            | Barbour and Ramsden (1919)<br>Estrada et al.(1987) Navarro et al.<br>(in press) Authors' unpub. data                    |
| <i>Anolis macilentus</i>   | L | MG   | Garrido and Hedges (1992)<br>Authors' unpub. data<br>Collection's data  |
| <i>Anolis noblei</i>       | E | SN, ST, CT                                       | Schwartz and Garrido (1972)<br>Garrido and Jaume (1984)<br>Authors' unpub. data   |
| <i>Anolis ophiolepis</i>   | E | SN, MG, AM                                       | Garrido and Jaume (1984) Navarro<br>et al. (in press) Authors' unpub.<br>data Collection's data                         |
| <i>Anolis porcatus</i>     | E | SN, SF, SC, ST,<br>MG, CT, AM, CB,<br>MB, TG, LC | Estrada et al.(1987)<br>Abreu et al. (1989)<br>Authors' unpub. data<br>Collection's data                                |
| <i>Anolis rubribarbus</i>  | R | ST, CT, AM, LC                                   | Garrido and Jaume (1984) Estrada<br>et al.(1987) Authors' unpub. data<br>Collection's data                              |
| <i>Anolis sagrei</i>       | - | SN, SF, SC, ST,<br>MG, CT, AM, CB,<br>MB, TG, LC | Estrada et al.(1987)<br>Abreu et al. (1989)<br>Authors' unpub. data<br>Collection's data                                |



|                               |   |  |  |
|-------------------------------|---|--|--|
| <i>Anolis smallwoodi</i>      | E | SC, ST, MG, CT,<br>AM, TG, LC                    | Schwartz and Garrido (1972)<br>Garrido and Jaume (1984) Estrada<br>et al.(1987) Schwartz and<br>Henderson (1991) Authors' unpub.<br>data Collection's data   |
| <i>Anolis sp.</i>             | L | CM   | Fong and Garrido (in press)  |
| <i>Anolis vescus</i>          | L | CB   | Garrido and Hedges (1992)<br>Collection's data   |
| <i>Chamaeleolis porcus</i>    | R | SN, SC, MG, CB,<br>MB                            | Garrido (1982)<br>Garrido and Jaume (1984) Navarro<br>et al.(in press) Authors' unpub.<br>data Collection's data   |
| <b>Iguanidae/Tropiduridae</b> |   |  |  |
| <i>Leiocephalus carinatus</i> | - | CB, MB, TG, LC                                   | Garrido and Jaume (1984)<br>Collection's data  |
| <i>Leiocephalus cubensis</i>  | E | SN, SC, MG, AM,<br>LC                            | Garrido and Jaume (1984) Abreu et<br>al. (1989) Navarro et al.(in press)<br>Authors' unpub. data   |
| <i>Leiocephalus macropus</i>  | E | SN, SF, SC, ST,<br>MG, CT, AM, CB,<br>MB, TG, LC | Garrido (1979) Garrido and Jaume<br>(1984) Estrada et al.(1987) Abreu<br>et al. (1989) Navarro et al.(in press)<br>Authors' unpub. data<br>Collection's data |
| <i>Leiocephalus onaneyi</i>   | L | TG   | Garrido (1973b)<br>Garrido and Jaume (1984)  |
| <i>Leiocephalus raviceps</i>  | E | MB, TG   | Garrido and Jaume (1984)<br>Authors' unpub. data<br>Collection's data  |
| <b>Teiidae</b>                |   |  |  |
| <i>Ameiva auberi</i>          | - | SN, SC, ST, CT,<br>AM, MB, TG, LC                | Garrido and Jaume (1984) Estrada<br>et al.(1987) Navarro et al.(in press)<br>Authors' unpub. data<br>Collection's data                                       |
| <b>Boidae</b>                 |   |  |  |
| <i>Epicrates angulifer</i>    | E | SN, SC, ST, CT,<br>AM, CB                        | Estrada et al.(1987)<br>Abreu et al. (1989)<br>Navarro et al. (in press)<br>Authors' unpub. data<br>Collection's data  |

**Colubridae**

|                                 |   |                                    |   |
|---------------------------------|---|------------------------------------|---|
| <i>Alsophis cantherigerus</i>   | - | SN, SC, ST, MG, CT, AM, CB, MB, TG | Garrido and Jaume (1984) Estrada et al.(1987) Silva Taboada (1988) Abreu et al. (1989) Navarro et al. (in press) Authors' unpub. data Collection's data |
| <i>Antillophis andreae</i>      | E | SN, SC, MG, CT, AM, CB, MB, TG     | Estrada et al.(1987) Abreu et al. (1989) Navarro et al. (in press) Authors' unpub. data Collection's data   |
| <i>Arrhyton landoi</i>          | E | CB, MB, TG                         | Schwartz and Garrido (1981) Garrido and Jaume (1984) Hedges and Garrido (1992a)   |
| <i>Arrhyton supernum</i>        | L | MG, CB                             | Hedges and Garrido (1992a) Collection's data  |
| <i>Tretanorhinus variabilis</i> | - | SN, SC, AM                         | Navarro et al. (in press) Collection's data   |

**Tropidophidae**

|                              |   |  |  |
|------------------------------|---|--|--|
| <i>Tropidophis fuscus</i>    | R | CT, AM, CB, MB                         | Hedges and Garrido (1992b) Fong (2000) Authors' unpub. data Collection's data                                    |
| <i>Tropidophis melanurus</i> | - | SN, SC, ST, MG, CT, AM, CB, MB, TG, LC | Estrada et al.(1987) Hedges and Garrido (1992b) Navarro et al. (in press) Authors' unpub. data Collection's data |
| <i>Tropidophis pilsbryi</i>  | E | SN, MB                                 | Garrido and Jaume (1984) Collection's data   |
| <i>Tropidophis wrighti</i>   | E | SN, CT, AM                             | Estrada et al.(1987) Hedges and Garrido (1992b) Authors' unpub. data Collection's data                           |

**Typhlopidae**

|                             |   |                            |   |
|-----------------------------|---|----------------------------|---|
| <i>Typhlops biminensis</i>  | - | MB                         | Authors' unpub. data  |
| <i>Typhlops lumbricalis</i> | - | SN, ST, MG, CT, AM, CB, MB | Estrada et al.(1987) Navarro et al. (in press) Authors' unpub. data Collection's data |

**TESTUDINES****Emydidae**

|                            |   |    |                           |
|----------------------------|---|----|---------------------------|
| <i>Trachemys decussata</i> | - | SN | Navarro et al. (in press) |
|----------------------------|---|----|---------------------------|



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